

A2  
1 8. (Amended) A lithium polymer secondary battery of claim 7,  
2 wherein the ceramic is at least one [type] ceramic material selected from the group  
3 consisting of  $\text{Al}_2\text{O}_3$ ,  $\text{SiO}_2$ ,  $\text{ZrO}_2$ ,  $\text{MgO}$ , and  $\text{Na}_2\text{O}$ .

1 12. (Amended) A lithium polymer secondary battery comprising  
2 a positive electrode and a negative electrode for occluding and releasing lithium,  
3 and a polymer electrolyte, wherein the polymer electrolyte is a gel polymer  
4 electrolyte containing  $\text{Al}_2\text{O}_3$  particles with particle size of 10 microns or less and 80  
5 parts by weight or less of nonaqueous electrolyte solution, and the negative  
6 electrode is mixed with said gel polymer electrolyte so that  $\text{Al}_2\text{O}_3$  particles of 0.01  
7 to 10 parts by weight are contained in 100 parts by weight of the active substance.

A3  
1 13. (Amended) A lithium ion secondary battery mainly  
2 comprising a positive electrode using lithium transition metal compound oxide as  
3 active substance, a negative electrode containing [at least one] an active substance  
4 [selected from the group consisting of lithium] occluding and releasing lithium  
5 [carbon, metal oxide and polymer], and an organic electrolyte solution, wherein the  
6 negative electrode contains ceramic not relating to charge and discharge reaction of  
7 battery, the ceramic being composed of at least one ceramic material [type] selected  
8 from the group consisting of  $\text{Al}_2\text{O}_3$ ,  $\text{SiO}_2$ ,  $\text{ZrO}_2$ ,  $\text{MgO}$ , and  $\text{Na}_2\text{O}$ , by 0.01 to [20]  
9 10 parts by weight in 100 parts by weight of active substance the shape of the  
10 ceramic being granular and said particle size being 10 microns or less.

A4  
1 15. (Amended) A lithium ion secondary battery of claim 13,  
2 wherein the ceramic is  $\text{Al}_2\text{O}_3$  particles, contained by 0.01 to 20 parts by weight in  
3 100 parts by weight of active substance].

### REMARKS

#### *Brief Summary of the Invention*

The secondary battery of the present invention is a lithium battery, wherein mixing ceramic particles in the electrode results in ion conductivity enhancement and lowering of the internal resistance of the electrode. The use of at least one